

**IN THE SPECIFICATION:**

Kindly make the following amendments to the paragraph that begins on line 25 of page 19:

Laminin  $\alpha 4$  gene-specific polynucleotides, including laminin  $\alpha 4$ -specific mRNA species, are determined by base sequence similarity or homology to known mammalian laminin  $\alpha 4$ -specific nucleotide sequences. Base sequence homology is determined by conducting a base sequence similarity search of a genomics data base, such as the GenBank database of the National Center for Biotechnology Information (NCBI; [www.ncbi.nlm.nih.gov/BLAST/](http://www.ncbi.nlm.nih.gov/BLAST/)), using a computerized algorithm, such as PowerBLAST, QBLAST, PSI-BLAST, PHI-BLAST, gapped or ungapped BLAST, or the "Align" program through the Baylor College of Medicine server ([www.hgsc.bcm.tmc.edu/seq\\_data](http://www.hgsc.bcm.tmc.edu/seq_data)). (E.g., Altschul, S.F., *et al.*, *Gapped BLAST and PSI-BLAST: a new generation of protein database search programs*, Nucleic Acids Res. 25(17):3389-402 [1997]; Zhang, J., & Madden, T.L., *PowerBLAST: a new network BLAST application for interactive or automated sequence analysis and annotation*, Genome Res. 7(6):649-56 [1997]; Madden, T.L., *et al.*, *Applications of network BLAST server*, Methods Enzymol. 266:131-41 [1996]; Altschul, S.F., *et al.*, *Basic local alignment search tool*, J. Mol. Biol. 215(3):403-10 [1990]). Preferably, a laminin  $\alpha 4$ -specific polynucleotide sequence, including an mRNA sequence, is at least 5 to 30 contiguous nucleotides long, more preferably at least 6 to 15 contiguous nucleotides long, and most preferably at least 7 to 10 contiguous nucleotides long. Preferably, the laminin  $\alpha 4$ -specific mRNA is at least about 45 contiguous nucleotides long. A laminin  $\alpha 4$ -specific mRNA can be, but is not necessarily, an mRNA species containing a nucleotide sequence that encodes a functional laminin  $\alpha 4$  subunit or a fragment thereof. A suitable functional laminin  $\alpha 4$  subunit is coded by GeneBank Accession NM\_002290 No. Z99289 (SEQ ID NO:1). Also included among laminin  $\alpha 4$ -specific mRNAs is one known splice variant.

Please amend the paragraph beginning at Line 17 of page 22 as follows:

The mRNAs are amplified by a suitable amplification method. For example, in a preferred embodiment, a reverse transcriptase-mediated polymerase chain reaction (RT-PCR) is employed to amplify *laminin  $\alpha$ 4*-specific nucleic acids. Briefly, two enzymes are used in the amplification process, a reverse transcriptase to transcribe *laminin  $\alpha$ 4*-specific cDNA from a *laminin  $\alpha$ 4*-specific mRNA template in the sample, a thermal resistant DNA polymerase (e.g., *Taq* polymerase), and *laminin  $\alpha$ 4*-specific primers to amplify the cDNA to produce *laminin* gene-specific amplification products. Examples of useful *laminin  $\alpha$ 4*-specific primers include (1) forward primer: 5' CTCCATCTCACTGGATAATGGTACTG 3' (SEQ. ID. NO.:1 ~~SEQ ID NO:2~~); and (2) reverse primer: 5' GACACTCATAAAGAGAAGTGTGGACC 3' (SEQ. ID. NO.:2 ~~SEQ ID NO:3~~). The use of limited cycle PCR yields semi-quantitative results. (E.g., Gelfand *et al.*, *Reverse transcription with thermostable DNA polymerase-high temperature reverse transcription*, U.S. Patent Nos. 5,310,652; 5,322,770; Gelfand *et al.*, *Unconventional nucleotide substitution in temperature selective RT-PCR*, U.S. Patent No. 5,618,703).

Please amend page 37, line 24 through page 38, line 2 as follows.

The following primers were used to amplify *laminin  $\alpha$ 4*-specific nucleic acid:

(1) forward primer: 5' CTCCATCTCACTGGATAATGGTACTG 3' (SEQ. ID. NO.:1 ~~SEQ ID NO:2~~);

(2) reverse primer: 5' GACACTCATAAAGAGAAGTGTGGACC 3' (SEQ. ID. NO.:2 ~~SEQ ID NO:3~~).

The following primers were used to amplify  ~~$\beta$ 2-MG~~  $\beta$ 2-microglobulin ( $\beta$ 2-MG, a housekeeping gene used for quantitation of amplification) specific nucleic acid:

(1) forward primer: 5' CTCGCGCTACTCTCTCTTTCTG 3' (SEQ. ID. NO.:3 ~~SEQ ID NO:4~~);

(2) reverse primer: 5' GCTTACATGTCTCGATCCCACTT 3' (SEQ. ID. NO.:4  
~~SEQ ID NO:5~~).